

The following restraining slab requirements are based on backfill heights and machinery loadings as indicated on the associated drawings.
The restraining slab length shown is the minimum length required, assuming a 5 in. slab thickness.

MACHINERY LOADING CONDITIONS (SEE DESIGN GUIDE 6)											Load condition 2 (Full inside), no machinery. See note 2	
NONE		A (See note 1)		B		C		Backfill Ht. (ft.)	Res. Slab Length (ft.)			
Wisconsin Std. Wall Drawing	Backfill Ht. (ft.)	Res.Slab Length (ft.)	Backfill Ht. (ft.)	Res. Slab Length (ft.)	Backfill Ht. (ft.)	Res. Slab Length (ft.)	Backfill Ht. (ft.)	Res. Slab Length (ft.)	Backfill Ht. (ft.)	Res. Slab Length (ft.)	Backfill Ht. (ft.)	Res. Slab Length (ft.)
PA-028C 2' to 5' backfill EFP 60	5	0	Not designed for this loading	Not designed for this loading	Not designed for this loading	Not designed for this loading	Not designed for this loading	Not designed for this loading	5	2*		
	4	0							4	3*		
	3	0							3	5*		
	2	0							2	6*		
PA-028B 5' to 8' backfill EFP 60	8	40	8	40	Not designed for this loading	Not designed for this loading	Not designed for this loading	Not designed for this loading	8	0		
	7	21							7	0		
	6	5							6	0		
	5	0							5	2*		
PA-028D 5' to 8' backfill EFP 60	8	40	8	40	8	59	Not designed for this loading	Not designed for this loading	8	0		
	7	21							7	0		
	6	5							6	0		
	5	0							5	2*		
PA-028A 5' to 8' backfill EFP 60	8	40	8	40	8	59	8	92	8	0		
	7	21							7	0		
	6	5							6	0		
	5	0							5	2*		
PA-028G 2' to 5' backfill EFP 85	5	14	Not designed for this loading	Not designed for this loading	Not designed for this loading	Not designed for this loading	Not designed for this loading	Not designed for this loading	5	2*		
	4	0							4	3*		
	3	0							3	5*		
	2	0							2	6*		
PA-028F 3' to 8' backfill EFP 85	8	85	8	85	8	104	Not designed for this loading	Not designed for this loading	8	0		
	7	56							7	0		
	6	31							6	0		
	5	11							5	0		
	4	0							4	2*		
PA-028E 0' to 8' backfill Machinery on nonstructural slab EFP 85	3	0			3	0			3	4*		
	8	71							8	0		
	7	43							7	0		
	6	20							6	0		
	5	0							5	0		

Note 1: For Structural Slab or Pushoff loading, Backfill Only condition (no machinery loading) governs the restraining slab requirement.

Note 2: A "*" following the length indicates that the restraining slab must be poured at the same time as the wall footing is poured and that the restraining slab is tied to the wall footing with tension steel.

_____ COUNTY, PENNSYLVANIA

SLIDING RESTRAINT FOR 8-FOOT R/C WALLS

